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JUN 04 2002

Wed May 21 09:22 2001 [BLASTN 2.2.1 [Jul-12-2001], NCBI]

Repeat: 1 (summary below)

/home/ruby/va/Molbio/carpanda/tempblast/ss.DNA35680 (3531 bp) TECH CENTER 1600/2900

Sequences producing High-scoring Segment Pairs:	Frame	Score	Match	Pct	E-val
1 P_AAZ64954 Membrane-bound protein PRO290 encoding c	+	3531	3531	100	0.0
2 P_AAF44100 Human PRO290 (UNQ253) nucleotide sequenc	+	3531	3531	100	0.0
3 P_AAC58368 Human PRO290 nucleotide sequence SEQ ID	+	3531	3531	100	0.0

>1 P\_AAZ64954 Membrane-bound protein PRO290 encoding cDNA. (3531 bp) [1 seg]  
Score = 3531 (7000 bits), Expect = 0.0  
Identities = 3531/3531 (100%), at 1,1-3531,3531, Strand +/+

ss.DNA35680	1	CCCACGCGTCCGCCCACGCGTCCGGCTGAACACCTCTTCTTTGGAGTCAGCCACTGATGA
		*****
P_AAZ64954	1	CCCACGCGTCCGCCCACGCGTCCGGCTGAACACCTCTTCTTTGGAGTCAGCCACTGATGA
ss.DNA35680	61	GGCAGGGTCCCCACTTGCAGCTGCAGCAGCTGCAGCAGCTGCAGAGCGCTGCTCCTGGCT
		*****
P_AAZ64954	61	GGCAGGGTCCCCACTTGCAGCTGCAGCAGCTGCAGCAGCTGCAGAGCGCTGCTCCTGGCT
ss.DNA35680	121	GGTGCCACTGGTGCGCACGCTGCTAGACCGTGCCTATGAGCCGCTGGGGCTGCAGTGGGG
		*****
P_AAZ64954	121	GGTGCCACTGGTGCGCACGCTGCTAGACCGTGCCTATGAGCCGCTGGGGCTGCAGTGGGG
ss.DNA35680	181	ACTGCCCTCCCTGCCACCCACCAATGGCAGCCCCACCTTCTTTGAAGACTTCCAGGCTTT
		*****
P_AAZ64954	181	ACTGCCCTCCCTGCCACCCACCAATGGCAGCCCCACCTTCTTTGAAGACTTCCAGGCTTT
ss.DNA35680	241	TTGTGCCACACCCGAATGGCGCCACTTCATCGACAAACAGGTACAGCCAACCATGTCCCA
		*****
P_AAZ64954	241	TTGTGCCACACCCGAATGGCGCCACTTCATCGACAAACAGGTACAGCCAACCATGTCCCA
ss.DNA35680	301	GTTCGAAATGGACACGTATGCTAAGAGCCACGACCTTATGTCAGGTTTCTGGAATGCCTG
		*****
P_AAZ64954	301	GTTCGAAATGGACACGTATGCTAAGAGCCACGACCTTATGTCAGGTTTCTGGAATGCCTG
ss.DNA35680	361	CTATGACATGCTTATGAGCAGTGGGCAGCGGCCAGTGGGAGCGCGCCAGAGTCGTGC
		*****
P_AAZ64954	361	CTATGACATGCTTATGAGCAGTGGGCAGCGGCCAGTGGGAGCGCGCCAGAGTCGTGC
ss.DNA35680	421	GGCCTTCCAGGAGCTGGTGCTGGAACCTGCGCAGAGGCGGGCGCGCCTGGAGGGGCTACG
		*****
P_AAZ64954	421	GGCCTTCCAGGAGCTGGTGCTGGAACCTGCGCAGAGGCGGGCGCGCCTGGAGGGGCTACG
ss.DNA35680	481	CTACACGGCAGTGCTGAAGCAGCAGGCAACGCAGCACTCCATGGCCCTGCTGCACTGGGG
		*****
P_AAZ64954	481	CTACACGGCAGTGCTGAAGCAGCAGGCAACGCAGCACTCCATGGCCCTGCTGCACTGGGG
ss.DNA35680	541	GGCGCTGTGGCGCCAGCTCGCCAGCCCATGTGGGGCCTGGGCGCTGAGGGACACTCCCAT
		*****
P_AAZ64954	541	GGCGCTGTGGCGCCAGCTCGCCAGCCCATGTGGGGCCTGGGCGCTGAGGGACACTCCCAT
ss.DNA35680	601	CCCCCGCTGGAAACTGTCCAGCGCCGAGACATATTCACGCATGCGTCTGAAGCTGGTGCC

BLAST RESULTS A-1

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*****
P_AA264954 601 CCCCCGCTGGAACTGTCCAGCGCCGAGACATATTCACGCATGCGTCTGAAGCTGGTGCC
ss.DNA35680 661 CAACCATCACTTCGACCCTCACCTGGAAGCCAGCGCTCTCCGAGACAATCTGGGTGAGGT
*****
P_AA264954 661 CAACCATCACTTCGACCCTCACCTGGAAGCCAGCGCTCTCCGAGACAATCTGGGTGAGGT
ss.DNA35680 721 TCCCCTGACACCCACCGAGGAGGCCTCACTGCCTCTGGCAGTGACCAAAGAGGCCAAAGT
*****
P_AA264954 721 TCCCCTGACACCCACCGAGGAGGCCTCACTGCCTCTGGCAGTGACCAAAGAGGCCAAAGT
ss.DNA35680 781 GAGCACCCACCCGAGTTGCTGCAGGAGGACCAGCTCGGCGAGGACGAGCTGGCTGAGCT
*****
P_AA264954 781 GAGCACCCACCCGAGTTGCTGCAGGAGGACCAGCTCGGCGAGGACGAGCTGGCTGAGCT
ss.DNA35680 841 GGAGACCCCGATGGAGGCAGCAGAAGTGGATGAGCAGCGTGAGAAGCTGGTGCTGTCGGC
*****
P_AA264954 841 GGAGACCCCGATGGAGGCAGCAGAAGTGGATGAGCAGCGTGAGAAGCTGGTGCTGTCGGC
ss.DNA35680 901 CGAGTGCCAGCTGGTGACGGTAGTGGCCGTGGTCCCAGGGCTGCTGGAGGTCACCACACA
*****
P_AA264954 901 CGAGTGCCAGCTGGTGACGGTAGTGGCCGTGGTCCCAGGGCTGCTGGAGGTCACCACACA
ss.DNA35680 961 GAATGTATACTTCTACGATGGCAGCACTGAGCGCGTGGAAACCGAGGAGGGCATCGGCTA
*****
P_AA264954 961 GAATGTATACTTCTACGATGGCAGCACTGAGCGCGTGGAAACCGAGGAGGGCATCGGCTA
ss.DNA35680 1021 TGATTTCCGGCGCCCACTGGCCCAGCTGCGTGAGGTCCACCTGCGGCGTTTCAACCTGCG
*****
P_AA264954 1021 TGATTTCCGGCGCCCACTGGCCCAGCTGCGTGAGGTCCACCTGCGGCGTTTCAACCTGCG
ss.DNA35680 1081 CCGTTCAGCACTTGAGCTCTTCTTTATCGATCAGGCCAACTACTTCCTCAACTTCCCATG
*****
P_AA264954 1081 CCGTTCAGCACTTGAGCTCTTCTTTATCGATCAGGCCAACTACTTCCTCAACTTCCCATG
ss.DNA35680 1141 CAAGGTGGGCACGACCCCACTCTCATCTCCTAGCCAGACTCCGAGACCCCACTGGGCC
*****
P_AA264954 1141 CAAGGTGGGCACGACCCCACTCTCATCTCCTAGCCAGACTCCGAGACCCCACTGGGCC
ss.DNA35680 1201 CATCCCACCCCATACCCAGGTACGGAACCAAGGTGTACTCGTGGCTCCTGCGCCTACGGCC
*****
P_AA264954 1201 CATCCCACCCCATACCCAGGTACGGAACCAAGGTGTACTCGTGGCTCCTGCGCCTACGGCC
ss.DNA35680 1261 CCCCTCTCAAGGCTACCTAAGCAGCCGCTCCCCCAGGAGATGCTGCGTGCCTCAGGCCT
*****
P_AA264954 1261 CCCCTCTCAAGGCTACCTAAGCAGCCGCTCCCCCAGGAGATGCTGCGTGCCTCAGGCCT
ss.DNA35680 1321 TACCCAGAAATGGGTACAGCGTGAGATATCCAACCTCGAGTACTTGATGCAACTCAACAC
*****
P_AA264954 1321 TACCCAGAAATGGGTACAGCGTGAGATATCCAACCTCGAGTACTTGATGCAACTCAACAC
ss.DNA35680 1381 CATTGCGGGGCGGACCTACAATGACCTGTCTCAGTACCCTGTGTTCCCCTGGGTCTGCA
*****
P_AA264954 1381 CATTGCGGGGCGGACCTACAATGACCTGTCTCAGTACCCTGTGTTCCCCTGGGTCTGCA
ss.DNA35680 1441 GGAATACGTGTCCCAACCCCTGGACCTCAGCAACCCAGCCGTCTTCCGGGACCTGTCTAA
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BLAST RESULTS A-2

P\_AA264954 1441 GGACTACGTGTCCCCAACCCCTGGACCTCAGCAACCCAGCCGTCTTCCGGGACCTGTCTAA

ss.DNA35680 1501 GCCCATCGGTGTGGTGAACCCCAAGCATGCCAGCTCGTGAGGGAGAAGTATGAAAGCTT  
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P\_AA264954 1501 GCCCATCGGTGTGGTGAACCCCAAGCATGCCAGCTCGTGAGGGAGAAGTATGAAAGCTT

ss.DNA35680 1561 TGAGGACCCAGCAGGGACCATTGACAAGTTCCACTATGGCACCCACTACTCCAATGCAGC  
\*\*\*\*\*

P\_AA264954 1561 TGAGGACCCAGCAGGGACCATTGACAAGTTCCACTATGGCACCCACTACTCCAATGCAGC

ss.DNA35680 1621 AGGCGTGATGCACTACCTCATCCGCGTGGAGCCCTTCACCTCCCTGCACGTCCAGCTGCA  
\*\*\*\*\*

P\_AA264954 1621 AGGCGTGATGCACTACCTCATCCGCGTGGAGCCCTTCACCTCCCTGCACGTCCAGCTGCA

ss.DNA35680 1681 AAGTGGCCGCTTTGACTGCTCCGACCGGCAGTTCCACTCGGTGGCGGCAGCCTGGCAGGC  
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P\_AA264954 1681 AAGTGGCCGCTTTGACTGCTCCGACCGGCAGTTCCACTCGGTGGCGGCAGCCTGGCAGGC

ss.DNA35680 1741 ACGCCTGGAGAGCCCTGCCGATGTGAAGGAGCTCATCCCGAATTCTTCTACTTTCTCTGA  
\*\*\*\*\*

P\_AA264954 1741 ACGCCTGGAGAGCCCTGCCGATGTGAAGGAGCTCATCCCGAATTCTTCTACTTTCTCTGA

ss.DNA35680 1801 CTTCTGGAGAACCAGAACGGTTTTGACCTGGGCTGTCTCCAGCTGACCAACGAGAAGGT  
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P\_AA264954 1801 CTTCTGGAGAACCAGAACGGTTTTGACCTGGGCTGTCTCCAGCTGACCAACGAGAAGGT

ss.DNA35680 1861 AGGCGATGTGGTGCTACCCCCGTGGGCCAGCTCTCTGAGGACTTCATCCAGCAGCACCG  
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P\_AA264954 1861 AGGCGATGTGGTGCTACCCCCGTGGGCCAGCTCTCTGAGGACTTCATCCAGCAGCACCG

ss.DNA35680 1921 CCAGGCTCTGGAGTCGGAGTATGTGTCTGCACACCTACACGAGTGGATCGACCTCATCTT  
\*\*\*\*\*

P\_AA264954 1921 CCAGGCTCTGGAGTCGGAGTATGTGTCTGCACACCTACACGAGTGGATCGACCTCATCTT

ss.DNA35680 1981 TGGCTACAAGCAGCGGGGGCCAGCCGCCGAGGAGGCCCTCAATGTCTTCTATTACTGCAC  
\*\*\*\*\*

P\_AA264954 1981 TGGCTACAAGCAGCGGGGGCCAGCCGCCGAGGAGGCCCTCAATGTCTTCTATTACTGCAC

ss.DNA35680 2041 CTATGAGGGGGCTGTAGACCTGGACCATGTGACAGATGAGCGGGAACGGAAGGCTCTGGA  
\*\*\*\*\*

P\_AA264954 2041 CTATGAGGGGGCTGTAGACCTGGACCATGTGACAGATGAGCGGGAACGGAAGGCTCTGGA

ss.DNA35680 2101 GGGCATTATCAGCAACTTTGGGCAGACTCCCTGTCAGCTGCTGAAGGAGCCACATCCAAC  
\*\*\*\*\*

P\_AA264954 2101 GGGCATTATCAGCAACTTTGGGCAGACTCCCTGTCAGCTGCTGAAGGAGCCACATCCAAC

ss.DNA35680 2161 TCGGCTCTCAGCTGAGGAAGCAGCCCATCGCCTTGACGCCTGGACACTAACTCACCTAG  
\*\*\*\*\*

P\_AA264954 2161 TCGGCTCTCAGCTGAGGAAGCAGCCCATCGCCTTGACGCCTGGACACTAACTCACCTAG

ss.DNA35680 2221 CATCTTCCAGCACCTGGACGAACTCAAGGCATTCTTCGAGAGGTGACTGTGAGTGCCAG  
\*\*\*\*\*

P\_AA264954 2221 CATCTTCCAGCACCTGGACGAACTCAAGGCATTCTTCGAGAGGTGACTGTGAGTGCCAG

ss.DNA35680 2281 TGGGCTGCTGGGCACCCACAGCTGGTTGCCCTATGACCGCAACATAAGCAACTACTTCAG  
\*\*\*\*\*

P\_AA264954 2281 TGGGCTGCTGGGCACCCACAGCTGGTTGCCCTATGACCGCAACATAAGCAACTACTTCAG

BLAST RESULTS A-3

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ss.DNA35680 2341 CTTCAGCAAAGACCCCCACCATGGGCAGCCACAAGACGCAGCGACTGCTGAGTGGCCCGTG
*****
P_AA264954 2341 CTTCAGCAAAGACCCCCACCATGGGCAGCCACAAGACGCAGCGACTGCTGAGTGGCCCGTG

ss.DNA35680 2401 GGTGCCAGGCAGTGGTGTGAGTGGACAAGCACTGGCAGTGGCCCCGGATGGAAAGCTGCT
*****
P_AA264954 2401 GGTGCCAGGCAGTGGTGTGAGTGGACAAGCACTGGCAGTGGCCCCGGATGGAAAGCTGCT

ss.DNA35680 2461 ATTCAGCGGTGGCCACTGGGATGGCAGCCTGCGGGTGACTGCACTACCCCGTGGCAAGCT
*****
P_AA264954 2461 ATTCAGCGGTGGCCACTGGGATGGCAGCCTGCGGGTGACTGCACTACCCCGTGGCAAGCT

ss.DNA35680 2521 GTTGAGCCAGCTCAGCTGCCACCTTGATGTAGTAACCTGCCTTGCACTGGACACCTGTGG
*****
P_AA264954 2521 GTTGAGCCAGCTCAGCTGCCACCTTGATGTAGTAACCTGCCTTGCACTGGACACCTGTGG

ss.DNA35680 2581 CATCTACCTCATCTCAGGCTCCCGGGACACCACGTGCATGGTGTGGCGGCTCCTGCATCA
*****
P_AA264954 2581 CATCTACCTCATCTCAGGCTCCCGGGACACCACGTGCATGGTGTGGCGGCTCCTGCATCA

ss.DNA35680 2641 GGGTGGTCTGTCTAGTAGGCCTGGCACCAAGCCTGTGCAGGTCCTGTATGGGCATGGGGC
*****
P_AA264954 2641 GGGTGGTCTGTCTAGTAGGCCTGGCACCAAGCCTGTGCAGGTCCTGTATGGGCATGGGGC

ss.DNA35680 2701 TGCAGTGAGCTGTGTGGCCATCAGCACTGAACTTGACATGGCTGTGTCTGGATCTGAGGA
*****
P_AA264954 2701 TGCAGTGAGCTGTGTGGCCATCAGCACTGAACTTGACATGGCTGTGTCTGGATCTGAGGA

ss.DNA35680 2761 TGGAAGTGTGATCATAACACTGTACGCCGCGGACAGTTTGTAGCGGCACTACGGCCTCT
*****
P_AA264954 2761 TGGAAGTGTGATCATAACACTGTACGCCGCGGACAGTTTGTAGCGGCACTACGGCCTCT

ss.DNA35680 2821 GGGTGGCCACATTCCCTGGACCTATTTTCCACCTGGCATTGGGGTCCGAAGGCCAGATTGT
*****
P_AA264954 2821 GGGTGGCCACATTCCCTGGACCTATTTTCCACCTGGCATTGGGGTCCGAAGGCCAGATTGT

ss.DNA35680 2881 GGTACAGAGCTCAGCGTGGGAACGTCCTGGGGCCCAGGTACCTACTCCTTGACACCTGTA
*****
P_AA264954 2881 GGTACAGAGCTCAGCGTGGGAACGTCCTGGGGCCCAGGTACCTACTCCTTGACACCTGTA

ss.DNA35680 2941 TTCAGTCAATGGGAAGTTGCGGGCTTCACTGCCCCCTGGCAGAGCAGCCTACAGCCCTGAC
*****
P_AA264954 2941 TTCAGTCAATGGGAAGTTGCGGGCTTCACTGCCCCCTGGCAGAGCAGCCTACAGCCCTGAC

ss.DNA35680 3001 GGTGACAGAGGACTTTGTGTGCTGGGCACCGCCCAGTGCGCCCTGCACATCCTCCAAT
*****
P_AA264954 3001 GGTGACAGAGGACTTTGTGTGCTGGGCACCGCCCAGTGCGCCCTGCACATCCTCCAAT

ss.DNA35680 3061 AAACACACTGCTCCCGGCCGCGCCTCCCTTGCCCATGAAGGTGGCCATCCGCAGCGTGGC
*****
P_AA264954 3061 AAACACACTGCTCCCGGCCGCGCCTCCCTTGCCCATGAAGGTGGCCATCCGCAGCGTGGC

ss.DNA35680 3121 CGTGACCAAGGAGCGCAGCCACGTGCTGGTGGGCCTGGAGGATGGCAAGCTCATCGTGGT
*****
P_AA264954 3121 CGTGACCAAGGAGCGCAGCCACGTGCTGGTGGGCCTGGAGGATGGCAAGCTCATCGTGGT

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BLAST RESULTS A-4

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ss.DNA35680 3181 GGTGCGGGGGCAGCCCTCTGAGGTGCGCAGCAGCCAGTTTCGCGCGGAAGCTGTGGCGGTC
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P_AA264954 3181 GGTGCGGGGGCAGCCCTCTGAGGTGCGCAGCAGCCAGTTTCGCGCGGAAGCTGTGGCGGTC

ss.DNA35680 3241 CTCGCGGCGCATCTCCCAGGTGTCCTCGGGAGAGACGGAATACAACCCTACTGAGGCGCG
*****
P_AA264954 3241 CTCGCGGCGCATCTCCCAGGTGTCCTCGGGAGAGACGGAATACAACCCTACTGAGGCGCG

ss.DNA35680 3301 CTGAACCTGGCCAGTCCGGCTGCTCGGGCCCCGCCCCGGCAGGCCTGGCCCCGGGAGGCC
*****
P_AA264954 3301 CTGAACCTGGCCAGTCCGGCTGCTCGGGCCCCGCCCCGGCAGGCCTGGCCCCGGGAGGCC

ss.DNA35680 3361 CCGCCCAGAAGTCGGCGGGAACACCCCGGGGTGGGCAGCCAGGGGGTGAGCGGGGCCCA
*****
P_AA264954 3361 CCGCCCAGAAGTCGGCGGGAACACCCCGGGGTGGGCAGCCAGGGGGTGAGCGGGGCCCA

ss.DNA35680 3421 CCCTGCCCAGCTCAGGGATTGGCGGGCGATGTTACCCCTCAGGGATTGGCGGGCGGAAG
*****
P_AA264954 3421 CCCTGCCCAGCTCAGGGATTGGCGGGCGATGTTACCCCTCAGGGATTGGCGGGCGGAAG

ss.DNA35680 3481 TCCCGCCCCCTCGCCGGCTGAGGGGCCGCCCTGAGGGCCAGCACTGGCGTCT
*****
P_AA264954 3481 TCCCGCCCCCTCGCCGGCTGAGGGGCCGCCCTGAGGGCCAGCACTGGCGTCT

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>2 P\_AAF44100 Human PRO290 (UNQ253) nucleotide sequence SEQ ID NO:32. (3531 bp)  
[1 seg]

Score = 3531 (7000 bits), Expect = 0.0

Identities = 3531/3531 (100%), at 1,1-3531,3531, Strand +/-

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ss.DNA35680 1 CCCACGCGTCCGCCCACGCGTCCGGCTGAACACCTCTTCTTTGGAGTCAGCCACTGATGA
*****
P_AAF44100 1 CCCACGCGTCCGCCCACGCGTCCGGCTGAACACCTCTTCTTTGGAGTCAGCCACTGATGA

ss.DNA35680 61 GGCAGGGTCCCCACTTGCAGCTGCAGCAGCTGCAGCAGCTGCAGAGCGCTGCTCCTGGCT
*****
P_AAF44100 61 GGCAGGGTCCCCACTTGCAGCTGCAGCAGCTGCAGCAGCTGCAGAGCGCTGCTCCTGGCT

ss.DNA35680 121 GGTGCCACTGGTGCACGCTGCTAGACCGTGCCATGAGCCGCTGGGGCTGCAGTGGGG
*****
P_AAF44100 121 GGTGCCACTGGTGCACGCTGCTAGACCGTGCCATGAGCCGCTGGGGCTGCAGTGGGG

ss.DNA35680 181 ACTGCCCTCCCTGCCACCCACCAATGGCAGCCCCACCTTCTTTGAAGACTTCCAGGCTTT
*****
P_AAF44100 181 ACTGCCCTCCCTGCCACCCACCAATGGCAGCCCCACCTTCTTTGAAGACTTCCAGGCTTT

ss.DNA35680 241 TTGTGCCACACCCGAATGGCGCCACTTCATCGACAAACAGGTACAGCCAACCATGTCCCA
*****
P_AAF44100 241 TTGTGCCACACCCGAATGGCGCCACTTCATCGACAAACAGGTACAGCCAACCATGTCCCA

ss.DNA35680 301 GTTCGAAATGGACACGTATGCTAAGAGCCACGACCTTATGTCAGGTTTCTGGAATGCCTG
*****
P_AAF44100 301 GTTCGAAATGGACACGTATGCTAAGAGCCACGACCTTATGTCAGGTTTCTGGAATGCCTG

ss.DNA35680 361 CTATGACATGCTTATGAGCAGTGGGCAGCGGCCAGTGGGAGCGCGCCAGAGTCGTCG
*****
P_AAF44100 361 CTATGACATGCTTATGAGCAGTGGGCAGCGGCCAGTGGGAGCGCGCCAGAGTCGTCG

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BLAST RESULTS A-5

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ss.DNA35680 421 GGCCTTCCAGGAGCTGGTGTCTGGAACCTGCGCAGAGGCGGGCGCGCCTGGAGGGGCTACG
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P_AAF44100 421 GGCCTTCCAGGAGCTGGTGTCTGGAACCTGCGCAGAGGCGGGCGCGCCTGGAGGGGCTACG

ss.DNA35680 481 CTACACGGCAGTGCTGAAGCAGCAGGCAACGCAGCACTCCATGGCCCTGCTGCACTGGGG
*****
P_AAF44100 481 CTACACGGCAGTGCTGAAGCAGCAGGCAACGCAGCACTCCATGGCCCTGCTGCACTGGGG

ss.DNA35680 541 GGCCTGTGGCGCCAGCTCGCCAGCCCATGTGGGGCCTGGGCGCTGAGGGACACTCCCAT
*****
P_AAF44100 541 GGCCTGTGGCGCCAGCTCGCCAGCCCATGTGGGGCCTGGGCGCTGAGGGACACTCCCAT

ss.DNA35680 601 CCCCCGCTGGAAACTGTCCAGCGCCGAGACATATTCACGCATGCGTCTGAAGCTGGTGCC
*****
P_AAF44100 601 CCCCCGCTGGAAACTGTCCAGCGCCGAGACATATTCACGCATGCGTCTGAAGCTGGTGCC

ss.DNA35680 661 CAACCATCACTTCGACCCTCACCTGGAAGCCAGCGCTCTCCGAGACAATCTGGGTGAGGT
*****
P_AAF44100 661 CAACCATCACTTCGACCCTCACCTGGAAGCCAGCGCTCTCCGAGACAATCTGGGTGAGGT

ss.DNA35680 721 TCCCCTGACACCCACCGAGGAGGCCTCACTGCCTCTGGCAGTGACCAAAGAGGCCAAAGT
*****
P_AAF44100 721 TCCCCTGACACCCACCGAGGAGGCCTCACTGCCTCTGGCAGTGACCAAAGAGGCCAAAGT

ss.DNA35680 781 GAGCACCCACCCGAGTTGCTGCAGGAGGACCAGCTCGGCGAGGACGAGCTGGCTGAGCT
*****
P_AAF44100 781 GAGCACCCACCCGAGTTGCTGCAGGAGGACCAGCTCGGCGAGGACGAGCTGGCTGAGCT

ss.DNA35680 841 GGAGACCCCGATGGAGGCAGCAGAACTGGATGAGCAGCGTGAGAAGCTGGTGCTGTCGGC
*****
P_AAF44100 841 GGAGACCCCGATGGAGGCAGCAGAACTGGATGAGCAGCGTGAGAAGCTGGTGCTGTCGGC

ss.DNA35680 901 CGAGTGCCAGCTGGTGACGGTAGTGGCCGTGGTCCCAGGGCTGCTGGAGGTCACCACACA
*****
P_AAF44100 901 CGAGTGCCAGCTGGTGACGGTAGTGGCCGTGGTCCCAGGGCTGCTGGAGGTCACCACACA

ss.DNA35680 961 GAATGTATACTTCTACGATGGCAGCACTGAGCGCGTGGAACCGAGGAGGGCATCGGCTA
*****
P_AAF44100 961 GAATGTATACTTCTACGATGGCAGCACTGAGCGCGTGGAACCGAGGAGGGCATCGGCTA

ss.DNA35680 1021 TGATTTCCGGCGCCCACTGGCCCAGCTGCGTGAGGTCCACCTGCGGCGTTTCAACCTGCG
*****
P_AAF44100 1021 TGATTTCCGGCGCCCACTGGCCCAGCTGCGTGAGGTCCACCTGCGGCGTTTCAACCTGCG

ss.DNA35680 1081 CCGTTCAGCACTTGAGCTCTTCTTTATCGATCAGGCCAACTACTTCCTCAACTTCCCATG
*****
P_AAF44100 1081 CCGTTCAGCACTTGAGCTCTTCTTTATCGATCAGGCCAACTACTTCCTCAACTTCCCATG

ss.DNA35680 1141 CAAGGTGGGCACGACCCCACTCTCATCTCCTAGCCAGACTCCGAGACCCAGCCTGGCCC
*****
P_AAF44100 1141 CAAGGTGGGCACGACCCCACTCTCATCTCCTAGCCAGACTCCGAGACCCAGCCTGGCCC

ss.DNA35680 1201 CATCCCACCCCATACCCAGGTACGGAACCAGGTGTACTCGTGGCTCCTGCGCCTACGGCC
*****
P_AAF44100 1201 CATCCCACCCCATACCCAGGTACGGAACCAGGTGTACTCGTGGCTCCTGCGCCTACGGCC

ss.DNA35680 1261 CCCCTCTCAAGGCTACCTAAGCAGCCGCTCCCCCAGGAGATGCTGCGTGCTCAGGCCT

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BLAST RESULTS A49

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*****
P_AAF44100 1261 CCCCTCTCAAGGCTACCTAAGCAGCCGCTCCCCCAGGAGATGCTGCGTGCCTCAGGCCT
ss.DNA35680 1321 TACCCAGAAATGGGTACAGCGTGAGATATCCAACCTTCGAGTACTTGATGCAACTCAACAC
*****
P_AAF44100 1321 TACCCAGAAATGGGTACAGCGTGAGATATCCAACCTTCGAGTACTTGATGCAACTCAACAC
ss.DNA35680 1381 CATTGCGGGGCGGACCTACAATGACCTGTCTCAGTACCCTGTGTTCCCTGGGTCTGCA
*****
P_AAF44100 1381 CATTGCGGGGCGGACCTACAATGACCTGTCTCAGTACCCTGTGTTCCCTGGGTCTGCA
ss.DNA35680 1441 GGACTACGTGTCCCAACCCTGGACCTCAGCAACCCAGCCGCTTCCGGGACCTGTCTAA
*****
P_AAF44100 1441 GGACTACGTGTCCCAACCCTGGACCTCAGCAACCCAGCCGCTTCCGGGACCTGTCTAA
ss.DNA35680 1501 GCCCATCGGTGTGGTGAACCCCAAGCATGCCAGCTCGTGAGGGAGAAGTATGAAAGCTT
*****
P_AAF44100 1501 GCCCATCGGTGTGGTGAACCCCAAGCATGCCAGCTCGTGAGGGAGAAGTATGAAAGCTT
ss.DNA35680 1561 TGAGGACCCAGCAGGGACCATTGACAAGTTCCACTATGGCACCCACTACTCCAATGCAGC
*****
P_AAF44100 1561 TGAGGACCCAGCAGGGACCATTGACAAGTTCCACTATGGCACCCACTACTCCAATGCAGC
ss.DNA35680 1621 AGGCGTGATGCACTACCTCATCCGCGTGAGGCCCTTCACCTCCCTGCACGTCCAGCTGCA
*****
P_AAF44100 1621 AGGCGTGATGCACTACCTCATCCGCGTGAGGCCCTTCACCTCCCTGCACGTCCAGCTGCA
ss.DNA35680 1681 AAGTGGCCGCTTTGACTGCTCCGACCGGCAGTTCCACTCGGTGGCGGCAGCCTGGCAGGC
*****
P_AAF44100 1681 AAGTGGCCGCTTTGACTGCTCCGACCGGCAGTTCCACTCGGTGGCGGCAGCCTGGCAGGC
ss.DNA35680 1741 ACGCCTGGAGAGCCCTGCCGATGTGAAGGAGCTCATCCCGGAATTCTTCTACTTTCCTGA
*****
P_AAF44100 1741 ACGCCTGGAGAGCCCTGCCGATGTGAAGGAGCTCATCCCGGAATTCTTCTACTTTCCTGA
ss.DNA35680 1801 CTTCTGGAGAACCAGAACGGTTTTGACCTGGGCTGTCTCCAGCTGACCAACGAGAAGGT
*****
P_AAF44100 1801 CTTCTGGAGAACCAGAACGGTTTTGACCTGGGCTGTCTCCAGCTGACCAACGAGAAGGT
ss.DNA35680 1861 AGGCGATGTGGTGCTACCCCCGTGGGCCAGCTCTCCTGAGGACTTCATCCAGCAGCACCG
*****
P_AAF44100 1861 AGGCGATGTGGTGCTACCCCCGTGGGCCAGCTCTCCTGAGGACTTCATCCAGCAGCACCG
ss.DNA35680 1921 CCAGGCTCTGGAGTCGGAGTATGTGTCTGCACACCTACACGAGTGGATCGACCTCATCTT
*****
P_AAF44100 1921 CCAGGCTCTGGAGTCGGAGTATGTGTCTGCACACCTACACGAGTGGATCGACCTCATCTT
ss.DNA35680 1981 TGGCTACAAGCAGCGGGGGCCAGCCGCCGAGGAGGCCCTCAATGTCTTCTATTACTGCAC
*****
P_AAF44100 1981 TGGCTACAAGCAGCGGGGGCCAGCCGCCGAGGAGGCCCTCAATGTCTTCTATTACTGCAC
ss.DNA35680 2041 CTATGAGGGGGCTGTAGACCTGGACCATGTGACAGATGAGCGGGAACGGAAGGCTCTGGA
*****
P_AAF44100 2041 CTATGAGGGGGCTGTAGACCTGGACCATGTGACAGATGAGCGGGAACGGAAGGCTCTGGA
ss.DNA35680 2101 GGGCATTATCAGCAACTTTGGGCAGACTCCCTGTCAGCTGCTGAAGGAGCCACATCCAAC
*****

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BLAST RESULTS A-7

P\_AAF44100 2101 GGGCATTATCAGCAACTTTGGGCAGACTCCCTGTCAGCTGCTGAAGGAGCCACATCCAAC

ss.DNA35680 2161 TCGGCTCTCAGCTGAGGAAGCAGCCCATCGCCTTGACGCCTGGACACTAACTCACCTAG  
\*\*\*\*\*

P\_AAF44100 2161 TCGGCTCTCAGCTGAGGAAGCAGCCCATCGCCTTGACGCCTGGACACTAACTCACCTAG

ss.DNA35680 2221 CATCTTCCAGCACCTGGACGAACTCAAGGCATTCTTCGCAGAGGTGACTGTGAGTGCCAG  
\*\*\*\*\*

P\_AAF44100 2221 CATCTTCCAGCACCTGGACGAACTCAAGGCATTCTTCGCAGAGGTGACTGTGAGTGCCAG

ss.DNA35680 2281 TGGGCTGCTGGGCACCCACAGCTGGTTGCCCTATGACCGCAACATAAGCAACTACTTCAG  
\*\*\*\*\*

P\_AAF44100 2281 TGGGCTGCTGGGCACCCACAGCTGGTTGCCCTATGACCGCAACATAAGCAACTACTTCAG

ss.DNA35680 2341 CTTCAGCAAAGACCCCAACCATGGGCAGCCACAAGACGCAGCGACTGCTGAGTGCCCGTG  
\*\*\*\*\*

P\_AAF44100 2341 CTTCAGCAAAGACCCCAACCATGGGCAGCCACAAGACGCAGCGACTGCTGAGTGCCCGTG

ss.DNA35680 2401 GGTGCCAGGCAGTGGTGTGAGTGGACAAGCACTGGCAGTGGCCCCGGATGGAAAGCTGCT  
\*\*\*\*\*

P\_AAF44100 2401 GGTGCCAGGCAGTGGTGTGAGTGGACAAGCACTGGCAGTGGCCCCGGATGGAAAGCTGCT

ss.DNA35680 2461 ATTCAGCGGTGGCCACTGGGATGGCAGCCTGCGGGTGACTGCACTACCCCGTGGCAAGCT  
\*\*\*\*\*

P\_AAF44100 2461 ATTCAGCGGTGGCCACTGGGATGGCAGCCTGCGGGTGACTGCACTACCCCGTGGCAAGCT

ss.DNA35680 2521 GTTGAGCCAGCTCAGCTGCCACCTTGATGTAGTAACCTGCCTTGCACTGGACACCTGTGG  
\*\*\*\*\*

P\_AAF44100 2521 GTTGAGCCAGCTCAGCTGCCACCTTGATGTAGTAACCTGCCTTGCACTGGACACCTGTGG

ss.DNA35680 2581 CATCTACCTCATCTCAGGCTCCCGGGACACCACGTGCATGGTGTGGCGGCTCCTGCATCA  
\*\*\*\*\*

P\_AAF44100 2581 CATCTACCTCATCTCAGGCTCCCGGGACACCACGTGCATGGTGTGGCGGCTCCTGCATCA

ss.DNA35680 2641 GGGTGGTCTGTCTCAGTAGGCCTGGCACCAAGCCTGTGCAGGTCTGTATGGGCATGGGGC  
\*\*\*\*\*

P\_AAF44100 2641 GGGTGGTCTGTCTCAGTAGGCCTGGCACCAAGCCTGTGCAGGTCTGTATGGGCATGGGGC

ss.DNA35680 2701 TGCAGTGAGCTGTGTGGCCATCAGCACTGAACTTGACATGGCTGTGTCTGGATCTGAGGA  
\*\*\*\*\*

P\_AAF44100 2701 TGCAGTGAGCTGTGTGGCCATCAGCACTGAACTTGACATGGCTGTGTCTGGATCTGAGGA

ss.DNA35680 2761 TGGAAGTGTGATCATACACACTGTACGCCGCGGACAGTTTGTAGCGGCACTACGGCCTCT  
\*\*\*\*\*

P\_AAF44100 2761 TGGAAGTGTGATCATACACACTGTACGCCGCGGACAGTTTGTAGCGGCACTACGGCCTCT

ss.DNA35680 2821 GGGTGCCACATTCCCTGGACCTATTTTCCACCTGGCATTGGGGTCCGAAGGCCAGATTGT  
\*\*\*\*\*

P\_AAF44100 2821 GGGTGCCACATTCCCTGGACCTATTTTCCACCTGGCATTGGGGTCCGAAGGCCAGATTGT

ss.DNA35680 2881 GGTACAGAGCTCAGCGTGGGAACGTCCTGGGGCCCAGGTACCTACTCCTTGACCTGTA  
\*\*\*\*\*

P\_AAF44100 2881 GGTACAGAGCTCAGCGTGGGAACGTCCTGGGGCCCAGGTACCTACTCCTTGACCTGTA

ss.DNA35680 2941 TTCAGTCAATGGGAAGTTGCGGGCTTCACTGCCCCTGGCAGAGCAGCCTACAGCCCTGAC  
\*\*\*\*\*

P\_AAF44100 2941 TTCAGTCAATGGGAAGTTGCGGGCTTCACTGCCCCTGGCAGAGCAGCCTACAGCCCTGAC

BLAST RESULTS A-B



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ss.DNA35680 3001 GGTGACAGAGGACTTTGTGTTGCTGGGCACCGCCCAGTGCGCCCTGCACATCCTCCAAC
*****
P_AAF44100 3001 GGTGACAGAGGACTTTGTGTTGCTGGGCACCGCCCAGTGCGCCCTGCACATCCTCCAAC
*****
ss.DNA35680 3061 AAACACACTGCTCCCGGCCGCGCCTCCCTTGCCCATGAAGGTGGCCATCCGCAGCGTGGC
*****
P_AAF44100 3061 AAACACACTGCTCCCGGCCGCGCCTCCCTTGCCCATGAAGGTGGCCATCCGCAGCGTGGC
*****
ss.DNA35680 3121 CGTGACCAAGGAGCGCAGCCACGTGCTGGTGGGCCTGGAGGATGGCAAGCTCATCGTGGT
*****
P_AAF44100 3121 CGTGACCAAGGAGCGCAGCCACGTGCTGGTGGGCCTGGAGGATGGCAAGCTCATCGTGGT
*****
ss.DNA35680 3181 GGTGCGGGGGCAGCCCTCTGAGGTGCGCAGCAGCCAGTTCGCGCGGAAGCTGTGGCGGTC
*****
P_AAF44100 3181 GGTGCGGGGGCAGCCCTCTGAGGTGCGCAGCAGCCAGTTCGCGCGGAAGCTGTGGCGGTC
*****
ss.DNA35680 3241 CTCGCGGCGCATCTCCAGGTGTCCTCGGGAGAGACGGAATACAACCCTACTGAGGCGCG
*****
P_AAF44100 3241 CTCGCGGCGCATCTCCAGGTGTCCTCGGGAGAGACGGAATACAACCCTACTGAGGCGCG
*****
ss.DNA35680 3301 CTGAACCTGGCCAGTCCGGCTGCTCGGGCCCCGCCCCGGCAGGCCTGGCCCCGGGAGGCC
*****
P_AAF44100 3301 CTGAACCTGGCCAGTCCGGCTGCTCGGGCCCCGCCCCGGCAGGCCTGGCCCCGGGAGGCC
*****
ss.DNA35680 3361 CCGCCCAGAAGTCGGCGGGAACACCCCGGGGTGGGCAGCCCAGGGGGTGAGCGGGGCCCCA
*****
P_AAF44100 3361 CCGCCCAGAAGTCGGCGGGAACACCCCGGGGTGGGCAGCCCAGGGGGTGAGCGGGGCCCCA
*****
ss.DNA35680 3421 CCCTGCCCAGCTCAGGGATTGGCGGGCGATGTTACCCCCTCAGGGATTGGCGGGCGGAAG
*****
P_AAF44100 3421 CCCTGCCCAGCTCAGGGATTGGCGGGCGATGTTACCCCCTCAGGGATTGGCGGGCGGAAG
*****
ss.DNA35680 3481 TCCCGCCCCCTCGCCGGCTGAGGGGCCGCCCTGAGGGCCAGCACTGGCGTCT
*****
P_AAF44100 3481 TCCCGCCCCCTCGCCGGCTGAGGGGCCGCCCTGAGGGCCAGCACTGGCGTCT
*****

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>3 P\_AAC58368 Human PRO290 nucleotide sequence SEQ ID NO:6. (3531 bp) [1 seg]  
Score = 3531 (7000 bits), Expect = 0.0  
Identities = 3531/3531 (100%), at 1,1-3531,3531, Strand +/-

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ss.DNA35680 1 CCCACGCGTCCGCCCACGCGTCCGGCTGAACACCTCTTCTTTGGAGTCAGCCACTGATGA
*****
P_AAC58368 1 CCCACGCGTCCGCCCACGCGTCCGGCTGAACACCTCTTCTTTGGAGTCAGCCACTGATGA
*****
ss.DNA35680 61 GGCAGGGTCCCCACTTGACAGCTGCAGCAGCTGCAGCAGCTGCAGAGCGCTGCTCCTGGCT
*****
P_AAC58368 61 GGCAGGGTCCCCACTTGACAGCTGCAGCAGCTGCAGCAGCTGCAGAGCGCTGCTCCTGGCT
*****
ss.DNA35680 121 GGTGCCACTGGTGCGCACGCTGCTAGACCGTGCTATGAGCCGCTGGGGCTGCAGTGGGG
*****
P_AAC58368 121 GGTGCCACTGGTGCGCACGCTGCTAGACCGTGCTATGAGCCGCTGGGGCTGCAGTGGGG
*****
ss.DNA35680 181 ACTGCCCTCCCTGCCACCCACCAATGGCAGCCCCACCTTCTTTGAAGACTTCCAGGCTTT
*****
P_AAC58368 181 ACTGCCCTCCCTGCCACCCACCAATGGCAGCCCCACCTTCTTTGAAGACTTCCAGGCTTT
*****

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BLAST RESULTS A-9

ss.DNA35680 241 TTGTGCCACACCCGAATGGCGCCACTTCATCGACAAACAGGTACAGCCAACCATGTCCCA  
 P\_AAC58368 241 TTGTGCCACACCCGAATGGCGCCACTTCATCGACAAACAGGTACAGCCAACCATGTCCCA  
 ss.DNA35680 301 GTTCGAAATGGACACGTATGCTAAGAGCCACGACCTTATGTCAGGTTTCTGGAATGCCTG  
 P\_AAC58368 301 GTTCGAAATGGACACGTATGCTAAGAGCCACGACCTTATGTCAGGTTTCTGGAATGCCTG  
 ss.DNA35680 361 CTATGACATGCTTATGAGCAGTGGGCAGCGGCCAGTGGGAGCGCGCCAGAGTCGTGCG  
 P\_AAC58368 361 CTATGACATGCTTATGAGCAGTGGGCAGCGGCCAGTGGGAGCGCGCCAGAGTCGTGCG  
 ss.DNA35680 421 GGCCTTCCAGGAGCTGGTGCTGGAACCTGCGCAGAGGCGGGCGCGCCTGGAGGGGCTACG  
 P\_AAC58368 421 GGCCTTCCAGGAGCTGGTGCTGGAACCTGCGCAGAGGCGGGCGCGCCTGGAGGGGCTACG  
 ss.DNA35680 481 CTACACGGCAGTGCTGAAGCAGCAGGCAACGCAGCACTCCATGGCCCTGCTGCACTGGGG  
 P\_AAC58368 481 CTACACGGCAGTGCTGAAGCAGCAGGCAACGCAGCACTCCATGGCCCTGCTGCACTGGGG  
 ss.DNA35680 541 GCGGCTGTGGCGCCAGCTCGCCAGCCCATGTGGGCGCTGGGCGCTGAGGGACACTCCCAT  
 P\_AAC58368 541 GCGGCTGTGGCGCCAGCTCGCCAGCCCATGTGGGCGCTGGGCGCTGAGGGACACTCCCAT  
 ss.DNA35680 601 CCCCCGCTGGAAACTGTCCAGCGCCGAGACATATTCACGCATGCGTCTGAAGCTGGTGCC  
 P\_AAC58368 601 CCCCCGCTGGAAACTGTCCAGCGCCGAGACATATTCACGCATGCGTCTGAAGCTGGTGCC  
 ss.DNA35680 661 CAACCATCACTTCGACCCTCACCTGGAAGCCAGCGCTCTCCGAGACAATCTGGGTGAGGT  
 P\_AAC58368 661 CAACCATCACTTCGACCCTCACCTGGAAGCCAGCGCTCTCCGAGACAATCTGGGTGAGGT  
 ss.DNA35680 721 TCCCCTGACACCCACCGAGGAGGCCTCACTGCCTCTGGCAGTGACCAAGAGGCCAAAGT  
 P\_AAC58368 721 TCCCCTGACACCCACCGAGGAGGCCTCACTGCCTCTGGCAGTGACCAAGAGGCCAAAGT  
 ss.DNA35680 781 GAGCACCCACCCGAGTTGCTGCAGGAGGACCAGCTCGGCGAGGACGAGCTGGCTGAGCT  
 P\_AAC58368 781 GAGCACCCACCCGAGTTGCTGCAGGAGGACCAGCTCGGCGAGGACGAGCTGGCTGAGCT  
 ss.DNA35680 841 GGAGACCCCGATGGAGGCAGCAGAACTGGATGAGCAGCGTGAGAAGCTGGTGCTGTGCGC  
 P\_AAC58368 841 GGAGACCCCGATGGAGGCAGCAGAACTGGATGAGCAGCGTGAGAAGCTGGTGCTGTGCGC  
 ss.DNA35680 901 CGAGTGCCAGCTGGTGACGGTAGTGGCCGTGGTCCCAGGGCTGCTGGAGGTCACCACACA  
 P\_AAC58368 901 CGAGTGCCAGCTGGTGACGGTAGTGGCCGTGGTCCCAGGGCTGCTGGAGGTCACCACACA  
 ss.DNA35680 961 GAATGTATACTTCTACGATGGCAGCACTGAGCGCGTGGAACCGAGGAGGGCATCGGCTA  
 P\_AAC58368 961 GAATGTATACTTCTACGATGGCAGCACTGAGCGCGTGGAACCGAGGAGGGCATCGGCTA  
 ss.DNA35680 1021 TGATTTCCGGCGCCCACTGGCCCAGCTGCGTGAGGTCCACCTGCGGCGTTTCAACCTGCG  
 P\_AAC58368 1021 TGATTTCCGGCGCCCACTGGCCCAGCTGCGTGAGGTCCACCTGCGGCGTTTCAACCTGCG  
 ss.DNA35680 1081 CCGTTCAGCACTTGAGCTCTTCTTTATCGATCAGGCCAACTACTTCCTCAACTTCCCATG

BLAST RESULTS A-10

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*****
P_AAC58368 1081 CCGTTCAGCACTTGAGCTCTTCTTTATCGATCAGGCCAACTACTTCCTCAACTTCCCATG
ss.DNA35680 1141 CAAGGTGGGCACGACCCCAGTCTCATCTCCTAGCCAGACTCCGAGACCCCAGCCTGGCCC
*****
P_AAC58368 1141 CAAGGTGGGCACGACCCCAGTCTCATCTCCTAGCCAGACTCCGAGACCCCAGCCTGGCCC
ss.DNA35680 1201 CATCCCACCCCATACCCAGGTACGGAACCAGGTGTACTCGTGGCTCCTGCGCCTACGGCC
*****
P_AAC58368 1201 CATCCCACCCCATACCCAGGTACGGAACCAGGTGTACTCGTGGCTCCTGCGCCTACGGCC
ss.DNA35680 1261 CCCCTCTCAAGGCTACCTAAGCAGCCGCTCCCCCAGGAGATGCTGCGTGCCTCAGGCCT
*****
P_AAC58368 1261 CCCCTCTCAAGGCTACCTAAGCAGCCGCTCCCCCAGGAGATGCTGCGTGCCTCAGGCCT
ss.DNA35680 1321 TACCCAGAAATGGGTACAGCGTGAGATATCCAACCTTCGAGTACTTGATGCAACTCAACAC
*****
P_AAC58368 1321 TACCCAGAAATGGGTACAGCGTGAGATATCCAACCTTCGAGTACTTGATGCAACTCAACAC
ss.DNA35680 1381 CATTGCGGGGCGGACCTACAATGACCTGTCTCAGTACCCTGTGTTCCCCTGGGTCTCTGCA
*****
P_AAC58368 1381 CATTGCGGGGCGGACCTACAATGACCTGTCTCAGTACCCTGTGTTCCCCTGGGTCTCTGCA
ss.DNA35680 1441 GGACTACGTGTCCCCAACCCTGGACCTCAGCAACCCAGCCGTCTTCCGGGACCTGTCTAA
*****
P_AAC58368 1441 GGACTACGTGTCCCCAACCCTGGACCTCAGCAACCCAGCCGTCTTCCGGGACCTGTCTAA
ss.DNA35680 1501 GCCCATCGGTGTGGTGAACCCCAAGCATGCCAGCTCGTGAGGGAGAAGTATGAAAGCTT
*****
P_AAC58368 1501 GCCCATCGGTGTGGTGAACCCCAAGCATGCCAGCTCGTGAGGGAGAAGTATGAAAGCTT
ss.DNA35680 1561 TGAGGACCCAGCAGGGACCATTGACAAGTTCCACTATGGCACCCTACTCCAATGCAGC
*****
P_AAC58368 1561 TGAGGACCCAGCAGGGACCATTGACAAGTTCCACTATGGCACCCTACTCCAATGCAGC
ss.DNA35680 1621 AGGCGTGATGCACTACCTCATCCGCGTGGAGCCCTTCACCTCCCTGCACGTCCAGCTGCA
*****
P_AAC58368 1621 AGGCGTGATGCACTACCTCATCCGCGTGGAGCCCTTCACCTCCCTGCACGTCCAGCTGCA
ss.DNA35680 1681 AAGTGGCCGCTTTGACTGCTCCGACCGGCAGTTCCACTCGGTGGCGGCAGCCTGGCAGGC
*****
P_AAC58368 1681 AAGTGGCCGCTTTGACTGCTCCGACCGGCAGTTCCACTCGGTGGCGGCAGCCTGGCAGGC
ss.DNA35680 1741 ACGCCTGGAGAGCCCTGCCGATGTGAAGGAGCTCATCCCGGAATTCTTCTACTTTCTCTGA
*****
P_AAC58368 1741 ACGCCTGGAGAGCCCTGCCGATGTGAAGGAGCTCATCCCGGAATTCTTCTACTTTCTCTGA
ss.DNA35680 1801 CTTCTGAGAGAACCAGAACGGTTTTTGACCTGGGCTGTCTCCAGCTGACCAACGAGAAGGT
*****
P_AAC58368 1801 CTTCTGAGAGAACCAGAACGGTTTTTGACCTGGGCTGTCTCCAGCTGACCAACGAGAAGGT
ss.DNA35680 1861 AGGCGATGTGGTGCTACCCCCGTGGGCCAGCTCTCCTGAGGACTTCATCCAGCAGCACCG
*****
P_AAC58368 1861 AGGCGATGTGGTGCTACCCCCGTGGGCCAGCTCTCCTGAGGACTTCATCCAGCAGCACCG
ss.DNA35680 1921 CCAGGCTCTGGAGTCGGAGTATGTGTCTGCACACCTACACGAGTGGATCGACCTCATCTT
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BLAST RESULTS A-11

P\_AAC58368 1921 CCAGGCTCTGGAGTCGGAGTATGTGTCTGCACACCTACACGAGTGGATCGACCTCATCTT

ss.DNA35680 1981 TGGCTACAAGCAGCGGGGGCCAGCCGCCGAGGAGGCCCTCAATGTCTTCTATTACTGCAC  
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P\_AAC58368 1981 TGGCTACAAGCAGCGGGGGCCAGCCGCCGAGGAGGCCCTCAATGTCTTCTATTACTGCAC

ss.DNA35680 2041 CTATGAGGGGGCTGTAGACCTGGACCATGTGACAGATGAGCGGGAACGGAAGGCTCTGGA  
\*\*\*\*\*

P\_AAC58368 2041 CTATGAGGGGGCTGTAGACCTGGACCATGTGACAGATGAGCGGGAACGGAAGGCTCTGGA

ss.DNA35680 2101 GGGCATTATCAGCAACTTTGGGCAGACTCCCTGTCAGCTGCTGAAGGAGCCACATCCAAC  
\*\*\*\*\*

P\_AAC58368 2101 GGGCATTATCAGCAACTTTGGGCAGACTCCCTGTCAGCTGCTGAAGGAGCCACATCCAAC

ss.DNA35680 2161 TCGGCTCTCAGCTGAGGAAGCAGCCCATCGCCTTGACAGCCTGGACACTAAGTACCTAG  
\*\*\*\*\*

P\_AAC58368 2161 TCGGCTCTCAGCTGAGGAAGCAGCCCATCGCCTTGACAGCCTGGACACTAAGTACCTAG

ss.DNA35680 2221 CATCTTCCAGCACCTGGACGAACTCAAGGCATTCTTCGAGAGGTGACTGTGAGTGCCAG  
\*\*\*\*\*

P\_AAC58368 2221 CATCTTCCAGCACCTGGACGAACTCAAGGCATTCTTCGAGAGGTGACTGTGAGTGCCAG

ss.DNA35680 2281 TGGGCTGCTGGGCACCCACAGCTGGTTGCCCTATGACCGCAACATAAGCAACTACTTCAG  
\*\*\*\*\*

P\_AAC58368 2281 TGGGCTGCTGGGCACCCACAGCTGGTTGCCCTATGACCGCAACATAAGCAACTACTTCAG

ss.DNA35680 2341 CTTAGCAAAGACCCCACCATGGGCAGCCACAAGACGCAGCGACTGCTGAGTGGCCCCGTG  
\*\*\*\*\*

P\_AAC58368 2341 CTTAGCAAAGACCCCACCATGGGCAGCCACAAGACGCAGCGACTGCTGAGTGGCCCCGTG

ss.DNA35680 2401 GGTGCCAGGCAGTGGTGTGAGTGGACAAGCACTGGCAGTGGCCCCGGATGGAAAGCTGCT  
\*\*\*\*\*

P\_AAC58368 2401 GGTGCCAGGCAGTGGTGTGAGTGGACAAGCACTGGCAGTGGCCCCGGATGGAAAGCTGCT

ss.DNA35680 2461 ATTCAGCGGTGGCCACTGGGATGGCAGCCTGCGGGTGACTGCACTACCCCGTGGCAAGCT  
\*\*\*\*\*

P\_AAC58368 2461 ATTCAGCGGTGGCCACTGGGATGGCAGCCTGCGGGTGACTGCACTACCCCGTGGCAAGCT

ss.DNA35680 2521 GTTGAGCCAGCTCAGCTGCCACCTTGATGTAGTAACCTGCCTTGCACTGGACACCTGTGG  
\*\*\*\*\*

P\_AAC58368 2521 GTTGAGCCAGCTCAGCTGCCACCTTGATGTAGTAACCTGCCTTGCACTGGACACCTGTGG

ss.DNA35680 2581 CATCTACCTCATCTCAGGCTCCCGGGACACCACGTGCATGGTGTGGCGGCTCCTGCATCA  
\*\*\*\*\*

P\_AAC58368 2581 CATCTACCTCATCTCAGGCTCCCGGGACACCACGTGCATGGTGTGGCGGCTCCTGCATCA

ss.DNA35680 2641 GGGTGGTCTGTGAGTAGGCCTGGCACCAAAGCCTGTGCAGGTCCTGTATGGGCATGGGGC  
\*\*\*\*\*

P\_AAC58368 2641 GGGTGGTCTGTGAGTAGGCCTGGCACCAAAGCCTGTGCAGGTCCTGTATGGGCATGGGGC

ss.DNA35680 2701 TGCAGTGAGCTGTGTGGCCATCAGCACTGAACTTGACATGGCTGTGTCTGGATCTGAGGA  
\*\*\*\*\*

P\_AAC58368 2701 TGCAGTGAGCTGTGTGGCCATCAGCACTGAACTTGACATGGCTGTGTCTGGATCTGAGGA

ss.DNA35680 2761 TGGAACTGTGATCATACACTGTACGCCGCGGACAGTTTGTAGCGGCACTACGGCCTCT  
\*\*\*\*\*

P\_AAC58368 2761 TGGAACTGTGATCATACACTGTACGCCGCGGACAGTTTGTAGCGGCACTACGGCCTCT

BLAST RESULTS A-12

ss.DNA35680 2821 GGGTGCCACATTCCCTGGACCTATTTTCCACCTGGCATTGGGGTCCGAAGGCCAGATTGT  
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 P\_AAC58368 2821 GGGTGCCACATTCCCTGGACCTATTTTCCACCTGGCATTGGGGTCCGAAGGCCAGATTGT  
 ss.DNA35680 2881 GGTACAGAGCTCAGCGTGGGAACGTCCTGGGGCCCAGGTCACCTACTCCTTGACCTGTA  
 \*\*\*\*\*  
 P\_AAC58368 2881 GGTACAGAGCTCAGCGTGGGAACGTCCTGGGGCCCAGGTCACCTACTCCTTGACCTGTA  
 ss.DNA35680 2941 TTCAGTCAATGGGAAGTTGCGGGCTTCACTGCCCCGGCAGAGCAGCCTACAGCCCTGAC  
 \*\*\*\*\*  
 P\_AAC58368 2941 TTCAGTCAATGGGAAGTTGCGGGCTTCACTGCCCCGGCAGAGCAGCCTACAGCCCTGAC  
 ss.DNA35680 3001 GGTGACAGAGGACTTTGTGTTGCTGGGCACCGCCCAGTGCGCCCTGCACATCCTCCAAC  
 \*\*\*\*\*  
 P\_AAC58368 3001 GGTGACAGAGGACTTTGTGTTGCTGGGCACCGCCCAGTGCGCCCTGCACATCCTCCAAC  
 ss.DNA35680 3061 AAACACACTGCTCCCGGCCGCGCCTCCCTTGCCCATGAAGGTGGCCATCCGCAGCGTGGC  
 \*\*\*\*\*  
 P\_AAC58368 3061 AAACACACTGCTCCCGGCCGCGCCTCCCTTGCCCATGAAGGTGGCCATCCGCAGCGTGGC  
 ss.DNA35680 3121 CGTGACCAAGGAGCGCAGCCACGTGCTGGTGGGCCTGGAGGATGGCAAGCTCATCGTGGT  
 \*\*\*\*\*  
 P\_AAC58368 3121 CGTGACCAAGGAGCGCAGCCACGTGCTGGTGGGCCTGGAGGATGGCAAGCTCATCGTGGT  
 ss.DNA35680 3181 GGTGCGGGGCGAGCCCTCTGAGGTGCGCAGCAGCCAGTTCGCGCGGAAGCTGTGGCGGTC  
 \*\*\*\*\*  
 P\_AAC58368 3181 GGTGCGGGGCGAGCCCTCTGAGGTGCGCAGCAGCCAGTTCGCGCGGAAGCTGTGGCGGTC  
 ss.DNA35680 3241 CTCGCGGCGCATCTCCAGGTGTCCTCGGGAGAGACGGAATACAACCCTACTGAGGCGCG  
 \*\*\*\*\*  
 P\_AAC58368 3241 CTCGCGGCGCATCTCCAGGTGTCCTCGGGAGAGACGGAATACAACCCTACTGAGGCGCG  
 ss.DNA35680 3301 CTGAACCTGGCCAGTCCGGCTGCTCGGGCCCCGCCCCCGGCAGGCCTGGCCCGGGAGGCC  
 \*\*\*\*\*  
 P\_AAC58368 3301 CTGAACCTGGCCAGTCCGGCTGCTCGGGCCCCGCCCCCGGCAGGCCTGGCCCGGGAGGCC  
 ss.DNA35680 3361 CCGCCCAGAAGTCGGCGGGAACACCCCGGGGTGGGCAGCCCAGGGGGTGAGCGGGGCCCCA  
 \*\*\*\*\*  
 P\_AAC58368 3361 CCGCCCAGAAGTCGGCGGGAACACCCCGGGGTGGGCAGCCCAGGGGGTGAGCGGGGCCCCA  
 ss.DNA35680 3421 CCCTGCCCAGCTCAGGGATTGGCGGGCGATGTTACCCCTCAGGGATTGGCGGGCGGAAG  
 \*\*\*\*\*  
 P\_AAC58368 3421 CCCTGCCCAGCTCAGGGATTGGCGGGCGATGTTACCCCTCAGGGATTGGCGGGCGGAAG  
 ss.DNA35680 3481 TCCCGCCCCCTCGCCGGCTGAGGGGCCGCCCTGAGGGCCAGCACTGGCGTCT  
 \*\*\*\*\*  
 P\_AAC58368 3481 TCCCGCCCCCTCGCCGGCTGAGGGGCCGCCCTGAGGGCCAGCACTGGCGTCT

BLAST RESULTS A-13